

EPO; JPO; DERWENT

| _ | 1 | 6181438.pn. and (enhanc\$6 near2 image) | USPAT; US-PGPUB; | 2003/03/19 16:52 |
|----------|------|---|------------------------|---|
| | | | EPO; JPO; | 16.52 |
| | | | DERWENT | |
| - | 1 | 6181438.pn. and (improv\$6 near2 image) | USPAT; | 2003/03/19 |
| | _ | (202000 p | US-PGPUB; | 16:52 |
| | | | EPO; JPO; | |
| | | | DERWENT | |
| _ | 1 | 6181438.pn. and ((improv\$6 or enhanc\$6) | USPAT; | 2003/03/19 |
| | | near2 image) | US-PGPUB; | 17:26 |
| | | | EPO; JPO; | |
| | | | DERWENT | |
| - | 0 | 6181438.pn. and (auxiliary) | USPAT; | 2003/03/19 |
| • | | | US-PGPUB; | 17:26 |
| + | | | EPO; JPO; | |
| | 2 | 6181438.pn. and (pixel) | DERWENT USPAT; | 2003/03/20 |
| | | oto1430.pm. and (pixel) | US-PGPUB; | 09:52 |
| | | | EPO; JPO; | 09.52 |
| | | | DERWENT | |
| _ | 0 | 6181438.pn. and (interior) | USPAT; | 2003/03/20 |
| | | , | US-PGPUB; | 09:52 |
| | | | EPO; JPO; | |
| 1 | | | DERWENT | |
| - | 0 | 6181438.pn. and (exterior) | USPAT; | 2003/03/20 |
| | | | US-PGPUB; | 09:53 |
| | | | EPO; JPO; | |
| | | 6101420 | DERWENT | 0000 (00 (00 |
| _ | 1 | 6181438.pn. and (object or shape) | USPAT; | 2003/03/20 |
| | | | US-PGPUB; EPO; JPO; | 09:53 |
| | | | DERWENT | |
| _ | 1 | 6181438.pn. and (inside or outside) | USPAT; | 2003/03/20 |
| | _ | distribution and (institution of substate) | US-PGPUB; | 14:49 |
| | | | EPO; JPO; | |
| | | | DERWENT | |
| - | 1 | 6181438.pn. and (adjacent or next or | USPAT; | 2003/03/20 |
| | | distant) | US-PGPUB; | 11:29 |
| | | | EPO; JPO; | |
| | | C101430 / | DERWENT | 2002/02/20 |
| _ | 0 | 6181438.pn. and (adjacent or equal\$2 or distant) | USPAT; | 2003/03/20 |
| | | distant) | US-PGPUB; EPO; JPO; | 09.30 |
| | | | DERWENT | |
| _ | 2978 | auxiliary and (382\$.ccls. or 358/\$.ccls.) | USPAT; | 2003/03/20 |
| | | | US-PGPUB; | 11:31 |
| | | | EPO; JPO; | |
| | | | DERWENT | l |
| - | 69 | | USPAT; | 2003/03/20 |
| | | chang\$4 or insert\$) near2 auxiliary) and | US-PGPUB; | 11:45 |
| | 1 | (auxiliary and (382\$.ccls. or | EPO; JPO; | |
| _ | 1 | 358/\$.ccls.)) | DERWENT USPAT; | 2003/03/20 |
| - | | 6535618.pn. | US-PGPUB; | 11:48 |
| | | | EPO; JPO; | 11.70 |
| | | | DERWENT | |
| - | 139 | embed\$4 near1 pixel | USPAT; | 2003/03/20 |
| | | , | US-PGPUB; | 11:49 |
| | | | EPO; JPO; | |
| 1 | | | DERWENT | |
| - | 0 | 5555557.pn. and (inside or outside) | USPAT; | 2003/03/20 |
| 1 | | | US-PGPUB; | 14:49 |
| | | | EPO; JPO; | |
| 1_ | 0 | 555557 pp and (interior or cuterior) | DERWENT | 2003/03/20 |
| - | | 5555557.pn. and (interior or exterior) | USPAT; US-PGPUB; | 15:20 |
| | 1 | | EPO; JPO; | 10.20 |
| | 1 | | DERWENT | |
| · | | | | 1 <u>. </u> |

| - | 1 | 5555557.pn. and (jag\$4) | USPAT; | 2003/03/20 |
|-----|----------|--|-----------|-------------|
| | | | US-PGPUB; | 15:37 |
| | | | EPO; JPO; | |
| ļ | | | DERWENT | 1 |
| _ | ا ۱ | 555557.pn. and (checker\$4) | USPAT; | 2003/03/20 |
| 1 | ١ | 3333337.pii. una (oneckery) | US-PGPUB; | 15:37 |
| | | | 1 | 13.37 |
| | İ | | EPO; JPO; | |
| | _ | | DERWENT | |
| - | 0 | 5555557.pn. and (checker\$5) | USPAT; | 2003/03/20 |
| | | | US-PGPUB; | 15:37 |
| | | | EPO; JPO; | |
| | | | DERWENT | |
| 1 - |) o l | 5555557.pn. and (checker\$6) | USPAT; | 2003/03/20 |
| | | (| US-PGPUB; | 15:37 |
| | | | EPO; JPO; | 1 2000 |
| | | | DERWENT | i |
| | | 5555557 /-bbb | | 2002/02/20 |
| = | 0 | 5555557.pn. and (checkerboard) | USPAT; | 2003/03/20 |
| | | | US-PGPUB; | 15:59 |
| | | | EPO; JPO; | |
| 1 | | | DERWENT | |
| - | 0 | 5555557.pn. and (electrostatic) | USPAT; | 2003/03/20 |
| 1 | | <u>-</u> | US-PGPUB; | 15:59 |
| 1 | 1 | | EPO; JPO; | |
| | | | DERWENT | |
| 1_ | 2 | 5555557.pn. and (print\$4) | USPAT; | 2003/03/20 |
| 1 - | 2 | Jooggo / . pii. and (princy) | US-PGPUB; | 16:03 |
| | <u> </u> | | 1 | 1 10.03 |
| | 1 | | EPO; JPO; | |
| | | | DERWENT | |
| - | 0 | 5555557.pn. and (electrophoto\$5) | USPAT; | 2003/03/20 |
| | | | US-PGPUB; | 16:04 |
| | 1 | | EPO; JPO; | |
| | | | DERWENT | |
| _ | 1 1 | 5555557.pn. and (electrophoto\$8) | USPAT; | 2003/03/20 |
| | - | ooooo, bur and (crossrophics) | US-PGPUB; | 16:10 |
| | | | EPO; JPO; | 1 20.10 |
| | | | DERWENT | |
| | | 555555 | | 2002/02/20 |
| - | 2 | | USPAT; | 2003/03/20 |
| | | storage or apparatus or ROM or RAm) | US-PGPUB; | 16:10 |
| Ì | | | EPO; JPO; | |
| | | | DERWENT | |
| _ | 912 | toner near1 cloud | USPAT; | 2003/09/11 |
| | | | US-PGPUB; | 14:57 |
| 1 | | | EPO; JPO; | |
| | | | DERWENT | |
| _ | 0 | (toner near1 cloud) near11 jaggies! | USPAT; | 2003/09/11 |
| | 1 | \Conor mears erough mearss jaggres. | US-PGPUB; | 14:57 |
| | | | 1 | 1 - 1 - 3 / |
| | | | EPO; JPO; | |
| | 1 | | DERWENT | 2002/00/11 |
| - | 0 | (toner nearl cloud) and jaggies! | USPAT; | 2003/09/11 |
| | | | US-PGPUB; | 14:58 |
| | | | EPO; JPO; | |
| 1 | | | DERWENT | |
| 1 - | 9 | (toner near1 cloud) and artifact | USPAT; | 2003/09/11 |
| 1 | | | US-PGPUB; | 14:58 |
| | | | EPO; JPO; | |
| | | | DERWENT | |
| 1_ | 7 | 4044718.URPN. | USPAT | 2003/09/11 |
| - | 1 | TUTT/IU.UKEN. | JOERI | 15:01 |
| | - | /Up-21271U U207220EU U402E071U | IICDAM | 1 |
| - | 6 | ("Re31371" "3972305" "4035071" | USPAT | 2003/09/11 |
| | | "4044718" "5023665" "5622805").PN. | | 15:01 |
| - | 137992 | | USPAT; | 2003/09/12 |
| 1 | | (white near1 gap near1 artifact)) | US-PGPUB; | 09:56 |
| | | | EPO; JPO; | |
| 1 | | | DERWENT | |
| _ | 0 | (((line near2 shrink\$4) or (halo) or | USPAT; | 2003/09/12 |
| 1 | | (white near1 gap near1 artifact))) and | US-PGPUB; | 09:10 |
| 1 | | ((line near2 shrink\$4) and (halo) and | EPO; JPO; | |
| | 1 | | 1 | |
| 1 | 1 | (white near1 gap near1 artifact)) | DERWENT | |

| | | 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 0000/00/10 |
|--------------|--------|---|-----------|------------|
| - | 0 | ((line near2 shrink\$4) and (halo) and | USPAT; | 2003/09/12 |
| | | <pre>(white near2 artifact))</pre> | US-PGPUB; | 09:10 |
| | • | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 0 | (((edge or line) near2 shrink\$4) and | USPAT; | 2003/09/12 |
| , | | (halo) and (white near2 artifact)) | US-PGPUB; | 09:11 |
| | | | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 25 | , | USPAT; | 2003/09/12 |
| | | (halo) and (white near2 artifact)) or | US-PGPUB; | 09:23 |
| | | (slow nearl toner) | EPO; JPO; | |
| | | | DERWENT; | |
| | | | IBM_TDB | |
| - | 2 | 4791679.pn. | USPAT; | 2003/09/12 |
| | | | US-PGPUB; | 09:28 |
| | | | EPO; JPO; | |
| | | | DERWENT | |
| _ | 2 | 5483351.pn. | USPAT; | 2003/09/12 |
| | 1 | _ | US-PGPUB; | 09:28 |
| | | | EPO; JPO; | |
| | 1 | | DERWENT | |
| - | 2 | 5218350.pn. | USPAT; | 2003/09/12 |
| | | _ | US-PGPUB; | 09:28 |
| | | | EPO; JPO; | |
| | | | DERWENT | |
| - | 91 | halo near2 (defect or artifact) | USPAT; | 2003/09/12 |
| | | · | US-PGPUB; | 09:54 |
| | | | EPO; JPO; | |
| | | | DERWENT | |
| _ | 0 | (halo near2 (defect or artifact)) and | USPAT; | 2003/09/12 |
| | | (auxiliary near2 pixel) | US-PGPUB; | 09:58 |
| | | | EPO; JPO; | |
| | | | DERWENT | |
| - | 1 | (((line near2 shrink\$4) or (halo) or | USPAT; | 2003/09/12 |
| | | (white near1 gap near1 artifact))) and | US-PGPUB; | 09:54 |
| | | (auxiliary near2 pixel) | EPO; JPO; | |
| | | | DERWENT | |
| - | 137992 | ((line near2 shrink\$4) or (halo) or | USPAT; | 2003/09/12 |
| | | (white near1 gap near1 (defect\$4 or | US-PGPUB; | 09:57 |
| | | artifact))) | EPO; JPO; | ! |
| | | | DERWENT | |
| - | 138014 | ((line near2 shrink\$4) or (halo) or | USPAT; | 2003/09/12 |
| | | (white nearl (gap or hole or space)) | US-PGPUB; | 09:57 |
| | | near2 (defect\$4 or artifact)) | EPO; JPO; | |
| | | | DERWENT | |
| - | 138022 | ((line near2 shrink\$4) or (halo) or | USPAT; | 2003/09/12 |
| | | (white nearl (gap or hole or space)) | US-PGPUB; | 09:58 |
| | | near4 (defect\$4 or artifact)) | EPO; JPO; | |
| | | | DERWENT | |
| - | 138025 | ((line near2 shrink\$4) or (halo) or | USPAT; | 2003/09/12 |
| | | (white nearl (gap or hole or space)) | US-PGPUB; | 10:01 |
| | | near6 (defect\$4 or artifact)) | EPO; JPO; | |
| | | | DERWENT | |
| - | 0 | (((line near2 shrink\$4) or (halo) or | USPAT; | 2003/09/12 |
| | | (white near1 (gap or hole or space)) | US-PGPUB; | 09:58 |
| | | near6 (defect\$4 or artifact))) same | EPO; JPO; | |
| | | (auxiliary near2 pixel) | DERWENT | |
| - | 1 | (((line near2 shrink\$4) or (halo) or | USPAT; | 2003/09/12 |
| | | (white nearl (gap or hole or space)) | US-PGPUB; | 09:58 |
| | | near6 (defect\$4 or artifact))) and | EPO; JPO; | |
| | | (auxiliary near2 pixel) | DERWENT | |
| - | 4 | 1 ' | USPAT; | 2003/09/12 |
| | | (shrink\$4 or thinning or thin\$5)) and | US-PGPUB; | 10:05 |
| 1 | | (white near2 (gap or hole or space)) | EPO; JPO; | |
| 1 | | near6 (defect\$4 or artifact)) | DERWENT | 1 |

| _ | 0 | (((line or edge or boundary) near6 (shrink\$4 or thinning or thinned)) and | USPAT; US-PGPUB; | 2003/09/12 10:09 |
|---|--------|--|-----------------------------------|---------------------|
| | | <pre>(toner near6 (blurring or blurr\$4 or cloud or cloudiness or cloudy)) and (white near6 (gap or hole or space)) same</pre> | EPO; JPO; DERWENT | |
| _ | 1 | <pre>(defect\$4 or artifact)) (((line or edge or boundary) with (shrink\$4 or thinning or thinned)) and</pre> | USPAT; US-PGPUB; | 2003/09/12 10:13 |
| | | <pre>(toner with (blurring or blurr\$4 or cloud or cloudiness or cloudy)) and (white</pre> | EPO; JPO; DERWENT | 10.13 |
| _ | 0 | <pre>with (gap or hole or space)) same (defect\$4 or artifact)) (((line or edge or edges! or border or</pre> | USPAT; | 2003/09/12 |
| | | <pre>contour or outline or perimeter or boundary) with (shrink\$4 or thinning or thinned)) and ((toner or tonal or ink or</pre> | US-PGPUB; EPO; JPO; DERWENT | 10:19 |
| | | tone) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy)) and ((white or achromatic or | | |
| | | colorless or pigment\$4) with (gap or hole or space)) same (defect\$4 or artifact)) same ((substitut\$4 or replace\$5 or | | |
| _ | 0 | <pre>auxiliary or alternate) near6 pixel) (((line or edge or edges! or border or</pre> | USPAT; US-PGPUB; | 2003/09/12 10:21 |
| | | contour or outline or perimeter or boundary) with (shrink\$4 or thinning or thinned)) and ((toner or tonal or ink or | EPO; JPO; DERWENT | 10:21 |
| | | tone or powder) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy)) and ((white or achromatic or | | |
| | | <pre>colorless or pigment\$4) with (gap or hole or space)) same (defect\$4 or artifact)) same ((substitut\$4 or replace\$5 or</pre> | | |
| _ | 0 | <pre>auxiliary or alternate) near6 pixel) (((line or edge or edges! or border or contour or outline or perimeter or</pre> | USPAT; US-PGPUB; | 2003/09/12 10:21 |
| | | boundary) with (reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or | EPO; JPO; DERWENT | |
| | ! | thinned)) and ((toner or tonal or ink or tone or powder) with (residue or blurring or blurr\$4 or cloud or cloudiness or | | |
| | ; | <pre>cloudy)) and ((white or achromatic or colorless or pigment\$4) with (gap or hole or space)) same (defect\$4 or artifact))</pre> | | |
| | 0 | same ((substitut\$4 or replace\$5 or auxiliary or alternate) near6 pixel) (((line or edge or edges! or border or | USPAT; | 2003/09/12 |
| | | contour or outline or perimeter or boundary) with (reduction or reduce or contraction or decreas\$4 or deflat\$4 or | US-PGPUB; EPO; JPO; DERWENT | 10:40 |
| | | compress\$4 or shrink\$4 or thinning or thinned)) and ((toner or tonal or ink or tone or powder) with (residue or blurring | | |
| | | or blurr\$4 or cloud or cloudiness or cloudy)) and ((white or achromatic or colorless or pigment\$4) with (gap or hole | | |
| | | or space)) same (defect\$4 or artifact or problem or error)) same ((substitut\$4 or | | |
| _ | 425354 | replace\$5 or auxiliary or alternate) near6 pixel) ((line or edge or edges! or border or | USPAT; | 2003/09/12 |
| | | contour or outline or perimeter or boundary) with (reduction or reduce or contraction or decreas\$4 or deflat\$4 or | US-PGPUB; EPO; JPO; DERWENT | 10.40 |
| _ | 24034 | compress\$4 or shrink\$4 or thinning or thinned)) ((toner or tonal or ink or tone or | USPAT; | 2003/09/12 |
| | | <pre>powder) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy))</pre> | US-PGPUB; EPO; JPO; DERWENT | 10:41 |

Search History 9/15/03 2:12:52 PM Page 5

| - | 13062 | ((white or achromatic or colorless or pigment\$4) with (gap or hole or space)) | USPAT; US-PGPUB; EPO; JPO; | 2003/09/12 10:42 |
|---|--------|--|---|---------------------|
| _ | 1153 | (defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate) near6 pixel) | DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 10:41 |
| | 1 | (((line or edge or edges! or border or contour or outline or perimeter or boundary) with (reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or thinned)) and (((toner or tonal or ink or tone or powder) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy)) and (((white or achromatic or colorless or pigment\$4) with (gap or hole or space)) and ((defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate) near6 pixel)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 10:26 |
| _ | 24037 | ((toner or tonal or ink or tone or powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 10:26 |
| | 1 | (((line or edge or edges! or border or contour or outline or perimeter or boundary) with (reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or thinned))) and (((toner or tonal or ink or tone or powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy))) and (((white or achromatic or colorless or pigment\$4) with (gap or hole or space)) and ((defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate) near6 pixel)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 10:28 |
| - | 27420 | <pre>((toner or halo or tonal or ink or tone or powder) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy))</pre> | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 10:29 |
| - | 1 | (((line or edge or edges! or border or contour or outline or perimeter or boundary) with (reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or thinned)) and (((toner or halo or tonal or ink or tone or powder) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy))) and (((white or achromatic or colorless or pigment\$4) with (gap or hole or space))) and ((defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 10:29 |
| - | 159159 | auxiliary or alternate) near6 pixel)) ((line or edge or edges! or border or contour or outline or perimeter or boundary) with (reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or | USOCR | 2003/09/12 10:30 |
| - | 4914 | thinned)) ((toner or halo or tonal or ink or tone or powder) with (residue or blurring or blurr\$4 or cloud or cloudiness or | USOCR | 2003/09/12 10:29 |
| _ | 2296 | cloudy)) ((white or achromatic or colorless or pigment\$4) with (gap or hole or space)) | USOCR | 2003/09/12 10:29 |

| [- | 0 | (defect\$4 or artifact or problem or | USOCR | 2003/09/12 |
|----|---|--|----------------------|------------|
| | | error) same ((substitut\$4 or replace\$5 or auxiliary or alternate) near6 pixel) | | 10:30 |
| _ | 0 | ocrL52 and ocrL53 and ocrL54 | USPAT; | 2003/09/12 |
| | | | US-PGPUB; | 10:30 |
| | | | EPO; JPO; DERWENT | |
| _ | 0 | (((line or edge or edges! or border or | USOCR | 2003/09/12 |
| | | contour or outline or perimeter or | | 10:31 |
| | | boundary) with (reduction or reduce or | | |
| | | contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or | | |
| | | thinned)) and ((toner or tonal or ink or | | |
| | | tone or powder) with (residue or blurring | | |
| | | or blurr\$4 or cloud or cloudiness or cloudy)) and ((white or achromatic or | | |
| | | colorless or pigment\$4) with (gap or hole | | |
| | | or space)) same (defect\$4 or artifact or | | |
| | | <pre>problem or error)) same ((substitut\$4 or replace\$5 or auxiliary or alternate)</pre> | | |
| | | near6 pixel) | | |
| - | 0 | ' | USOCR | 2003/09/12 |
| | | contour or outline or perimeter or boundary) with (reduction or reduce or | | 10:37 |
| | | contraction or decreas\$4 or deflat\$4 or | | |
| | | compress\$4 or shrink\$4 or thinning or | | |
| ļ | | thinned)) and ((toner or tonal or ink or tone or powder) with (residue or blurring | | |
| | | or blurr\$4 or cloud or cloudiness or | | |
| | | cloudy)) and ((white or achromatic or | | |
| | | colorless or pigment\$4) with (gap or hole or space)) same (defect\$4 or artifact or | | |
| | | problem or error)) same ((substitut\$4 or | | |
| | | replace\$5 or auxiliary or alternate) | | |
| | 0 | near6 pixel) (((line or edge or edges! or border or | USOCR | 2003/09/12 |
| | | contour or outline or perimeter or | OBOCK | 10:38 |
| | | boundary) with (reduction or reduce or | | |
| | | contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or | | |
| | | thinned)) and ((toner or tonal or ink or | | |
| | | tone or powder) with (residue or blurring | | |
| | | or blurr\$4 or cloud or cloudiness or cloudy)) and ((white or achromatic or | | |
| | | colorless or pigment\$4) with (gap or hole | | |
| | | or space)) same (defect\$4 or artifact or | | |
| | | problem or error)) same ((substitut\$4 or replace\$5 or auxiliary or alternate) | | |
| | | near6 (pixel or pel)) | | |
| - | 0 | (((line or edge or edges! or border or | IBM_TDB | 2003/09/12 |
| | | contour or outline or perimeter or boundary) with (reduction or reduce or | | 10:38 |
| | | contraction or decreas\$4 or deflat\$4 or | | |
| | | compress\$4 or shrink\$4 or thinning or | | |
| | | thinned)) and ((toner or tonal or ink or tone or powder) with (residue or blurring | | |
| | | or blurr\$4 or cloud or cloudiness or | | |
| | | cloudy)) and ((white or achromatic or | | |
| | | colorless or pigment\$4) with (gap or hole or space)) same (defect\$4 or artifact or | | |
| | | problem or error)) same ((substitut\$4 or | | |
| | | replace\$5 or auxiliary or alternate) | | |
| | 1 | near6 (pixel or pel)) | l | |

| - | 0 | (((line or edge or edges! or border or contour or outline or perimeter or boundary) with (reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 10:40 |
|---|--------|---|---|---------------------|
| | | thinned)) and ((toner or tonal or ink or tone or powder) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy)) and ((white or achromatic or | | |
| | | colorless or pigment\$4) with (gap or hole or space)) same (defect\$4 or artifact or problem or error)) same ((substitut\$4 or replace\$5 or auxiliary or alternate) | | |
| - | 436780 | near6 (pixel or pel)) ((line or edge or edges! or border or contour or outline or perimeter or boundary) with (broaden\$4 or thicken\$4 or reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 10:41 |
| _ | 24037 | shrink\$4 or thinning or thinned)) ((toner or tonal or ink or tone or powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud or | USPAT; US-PGPUB; EPO; JPO; | 2003/09/12 10:41 |
| - | 1169 | cloudiness or cloudy)) (defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate) near6 (pixel or pel or pels!)) | DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 11:08 |
| - | 471664 | <pre>(((white or achromatic or colorless or pigment\$4) with (gap or hole or space))) or (((line or edge or edges! or border or contour or outline or perimeter or</pre> | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 10:42 |
| | | boundary) with (broaden\$4 or thicken\$4 or reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or thinned))) or (((toner or tonal or ink or tone or powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud | | |
| | | or cloudiness or cloudy))) or ((defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate) near6 (pixel or pel or pels!))) | | |
| - | 1 | <pre>(((white or achromatic or colorless or pigment\$4) with (gap or hole or space))) and (((line or edge or edges! or border or contour or outline or perimeter or boundary) with (broaden\$4 or thicken\$4 or reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or thinned))) and (((toner or tonal or ink or tone or powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy))) and</pre> | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 |
| _ | 1282 | <pre>((defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate) near6 (pixel or pel or pels!))) (defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate or virtual or (non</pre> | USPAT; US-PGPUB; EPO; JPO; | 2003/09/12 10:44 |
| | | | | |

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|---|------|--|----------------------------------|---------------------|
| - | 1 | (((white or achromatic or colorless or pigment\$4) with (gap or hole or space))) | USPAT; US-PGPUB; | 2003/09/12 10:46 |
| | | and (((line or edge or edges! or border or contour or outline or perimeter or boundary) with (broaden\$4 or thicken\$4 or | EPO; JPO; DERWENT | |
| | | reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or | | |
| | | shrink\$4 or thinning or thinned))) and (((toner or tonal or ink or tone or | | |
| | | powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud | | |
| | | or cloudiness or cloudy))) and ((defect\$4 or artifact or problem or | | |
| | | error) same ((substitut\$4 or replace\$5 or auxiliary or alternate or virtual or (non | | |
| | 1100 | adj1 print\$4) or (nonprint\$4)) near6 (pixel or pel or pels!))) | IICDAM. | 2002/00/12 |
| | 1190 | <pre>(defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate or (non near1</pre> | USPAT; US-PGPUB; EPO; JPO; | 2003/09/12 11:11 |
| | , | print\$4) or (nonprint\$4) or (ultra near1 fine) or (ultra adj1 fine)) near6 (pixel | DERWENT | |
| _ | 1 | or pel or pels!)) (((white or achromatic or colorless or | USPAT; | 2003/09/12 |
| | _ | pigment\$4) with (gap or hole or space))) and (((line or edge or edges! or border | US-PGPUB; EPO; JPO; | 11:12 |
| | | or contour or outline or perimeter or boundary) with (broaden\$4 or thicken\$4 or | DERWENT | |
| | | reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or | | |
| | | shrink\$4 or thinning or thinned))) and (((toner or tonal or ink or tone or | | |
| | | powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy))) and | : | |
| | | ((defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or | | |
| | | auxiliary or alternate or (non near1 print\$4) or (nonprint\$4) or (ultra near1 | | |
| | | <pre>fine) or (ultra adj1 fine)) near6 (pixel or pel or pels!)))</pre> | | |
| - | 1364 | (defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or | USPAT; US-PGPUB; | 2003/09/12 11:13 |
| | | auxiliary or alternate or (non nearl print\$4) or (nonprint\$4) or (ultra nearl | EPO; JPO; DERWENT | |
| | | fine) or (ultra adj1 fine) or (below near3 threshold)) near6 (pixel or pel or | | |
| _ | 1 | <pre>pels!)) (((white or achromatic or colorless or pigment\$4) with (gap or hole or space)))</pre> | USPAT; US-PGPUB; | 2003/09/12 11:15 |
| | | and (((line or edge or edges! or border or contour or outline or perimeter or | EPO; JPO; DERWENT | |
| | | boundary) with (broaden\$4 or thicken\$4 or reduction or reduce or contraction or | | |
| | | decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or thinned))) and | | |
| | | (((toner or tonal or ink or tone or powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud | | |
| | | or cloudiness or cloudy))) and ((defect\$4 or artifact or problem or | | |
| | | error) same ((substitut\$4 or replace\$5 or auxiliary or alternate or (non near) | | |
| | | print\$4) or (nonprint\$4) or (ultra nearl fine) or (ultra adj1 fine) or (below | | |
| | | <pre>near3 threshold)) near6 (pixel or pel or pels!)))</pre> | | |

| - | 1364 | <pre>(defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate or (non near1 print\$4) or (nonprint\$4) or (ultra near1 fine) or (ultra adj1 fine) or (((less near1 than) or below) near3 threshold)) near6 (pixel or pel or pels!))</pre> | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 11:16 |
|---|------|---|---|---------------------|
| | | pigment\$4) with (gap or hole or space)) and (((line or edge or edges! or border or contour or outline or perimeter or boundary) with (broaden\$4 or thicken\$4 or reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or thinned))) and (((toner or tonal or ink or tone or powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy))) and ((defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate or (non near1 print\$4) or (nonprint\$4) or (ultra near1 fine) or (ultra adj1 fine) or (((less near1 than) or below) near3 threshold)) near6 (pixel or pel or pels!))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 11:16 |
| - | 1523 | <pre>(defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate or (non near1 print\$4) or (nonprint\$4) or (ultra near1 fine) or (ultra adj1 fine) or (((less near1 than) or below) near3 threshold) or bias\$4) near6 (pixel or pel or pels!))</pre> | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 |
| | 1 | (((white or achromatic or colorless or pigment\$4) with (gap or hole or space)) and (((line or edge or edges! or border or contour or outline or perimeter or boundary) with (broaden\$4 or thicken\$4 or reduction or reduce or contraction or decreas\$4 or deflat\$4 or compress\$4 or shrink\$4 or thinning or thinned)) and (((toner or tonal or ink or tone or powder or tonality or tonal) with (residue or blurring or blurr\$4 or cloud or cloudiness or cloudy)) and ((defect\$4 or artifact or problem or error) same ((substitut\$4 or replace\$5 or auxiliary or alternate or (non near1 print\$4) or (nonprint\$4) or (ultra near1 fine) or (ultra adj1 fine) or (((less near1 than) or below) near3 threshold) or bias\$4) near6 (pixel or pel or pels!))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 11:16 |
| - | 0 | bias\$4 near5 (pixel or pels!) near5 photoreceptor near5 (non near1 print\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 11:17 |
| - | 2 | bias\$4 near5 (pixel or pels!) near5 photoreceptor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 11:18 |
| - | 27 | (bias\$4 or auxiliary or non-print\$4 or nonprint\$4 or threshold\$4) with (pixel or pels!) with photoreceptor | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2003/09/12 11:19 |

| - | 459525 | (((line or edge or edges! or border or | USPAT; | 2003/09/12 |
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| | | contour or outline or perimeter or | US-PGPUB; | 11:19 |
| | | boundary) with (reduction or reduce or | EPO; JPO; | |
| | | contraction or decreas\$4 or deflat\$4 or | DERWENT | |
| | | compress\$4 or shrink\$4 or thinning or | | |
| | | thinned))) or (((toner or tonal or ink | | |
| | | or tone or powder) with (residue or | | |
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| | | cloudiness or cloudy))) or (((white or | | |
| | | achromatic or colorless or pigment\$4) | | |
| | | with (gap or hole or space))) | | |
| - | 459525 | ((((line or edge or edges! or border or | USPAT; | 2003/09/12 |
| | | contour or outline or perimeter or | US-PGPUB; | 11:19 |
| ļ | | boundary) with (reduction or reduce or | EPO; JPO; | |
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| | | cloudiness or cloudy))) or (((white or | | |
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| | | nonprint\$4 or threshold\$4) with (pixel or | | |
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| - 99 ("5774158" USPAT; 103.09/12 11:34 USPAT; 15.96316" EPO; JPO; DERWENT "5.96316" EPO; JPO; DERWENT "6.246993" "5.684933" "5.8003382" "5.349377" "5.700279" "5.225848" "5.225848" "5.225848" "5.225848" "5.25963" "6.185003" "4768046" "4777500" "49055203" "6.185003" "4768046" "4777500" "49055555" "5.555557" "5.555557" "5.572292" "5.615021" "5.867198" "6.013403" " | | | | | |
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| - 102 | 2 ("5253082" | USPAT; | 2003/09/12 |
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| - 101 | ("6003969" | USPAT; | 2003/09/12 |
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| _ | 105 | ("5805179" | USPAT; | 2003/09/12 |
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| - | 3 | ("4768043" "5282051" "5450208").PN. | USPAT | 2003/09/12 |
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| - | 1 | 5818504.URPN. | USPAT | 2003/09/12 |
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| - | 406 | (("5774158" "6198886" | USPAT; US-PGPUB; | 2003/09/12 13:18 |
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| | 2433 | 330/1.3.0013. | US-PGPUB; | 14:28 |
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| _ | 124 | 4847641.URPN. | USPAT | 2003/09/12 |
| | | | | 13:30 |
| - | 119 | control\$4 near8 (toner near2 cloud) | USPAT; | 2003/09/12 |
| | | | US-PGPUB; | 14:29 |
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| _ | 90 | control\$4 near4 (toner near2 cloud) | USPAT; | 2003/09/12 |
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| _ | 538 | control\$4 near6 (electric near2 field) | USPAT; | 2003/09/12 |
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| - | 24 | (control\$4 near3 (electric near2 field) | USPAT; | 2003/09/12 |
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| - | 53 | , ((| DERWENT USPAT; | 2003/09/12 |
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| | | outline or border or line) and (control\$4 | US-PGPUB; | 15:44 |
| | | near3 (toner near2 (cloud or mass)) near3 | EPO; JPO; | |
| _ | 2 | (pixel or pels! or pel or pixelat\$4)) control\$4 near5 (toner near2 (cloud or | DERWENT USPAT; | 2003/09/12 |
| | 2 | mass)) near6 (pixel or pels! or pel or | US-PGPUB; | 15:51 |
| | | pixelat\$4) | EPO; JPO; | |
| | | - | DERWENT | |
| - | 0 | 000000000000000000000000000000000000000 | USPAT; | 2003/09/12 |
| | | <pre>mass or bubble or deposit or deposition)) near6 (pixel or pels! or pel or</pre> | US-PGPUB; EPO; JPO; | 15:53 |
| | | pixelat\$4) near6 (edges! or edge or | DERWENT | |
| | | boundary or contour or outline or border | | |
| | | or line) | | 0000 100 110 |
| - | | control\$4 near5 (toner near2 (cloud or mass or bubble or deposit or deposition)) | USPAT; US-PGPUB; | 2003/09/12 |
| | | near6 (pixel or pels! or pel or | EPO; JPO; | 13.34 |
| | | pixelat\$4) with (edges! or edge or | DERWENT | |
| | | boundary or contour or outline or border | | |
| | | or line) | | |